

FIG. 1A

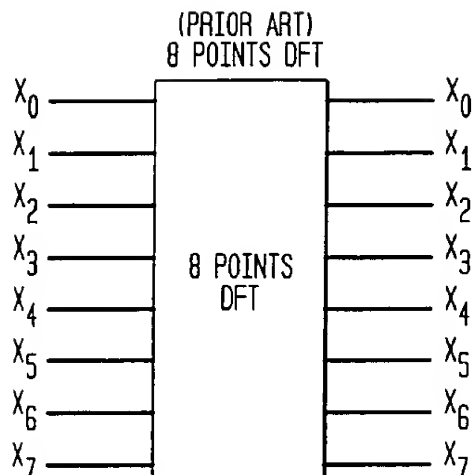


Fig 1A

(PRIOR ART)
8 POINTS DFT OBTAINED BY COMBINING TWO FOUR POINTS DFT

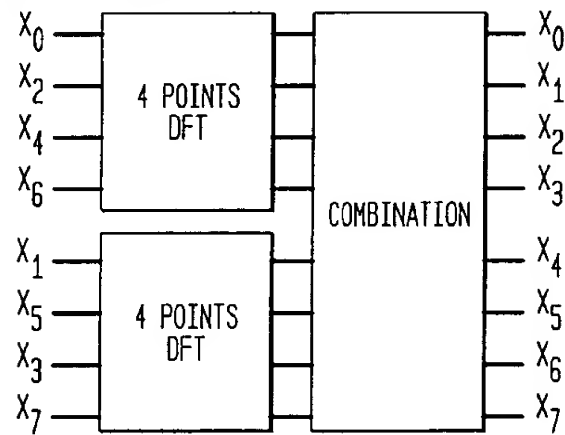


Fig 1B

(PRIOR ART)
8 POINTS DFT OBTAINED BY COMBINING FOUR TWO POINTS DFT

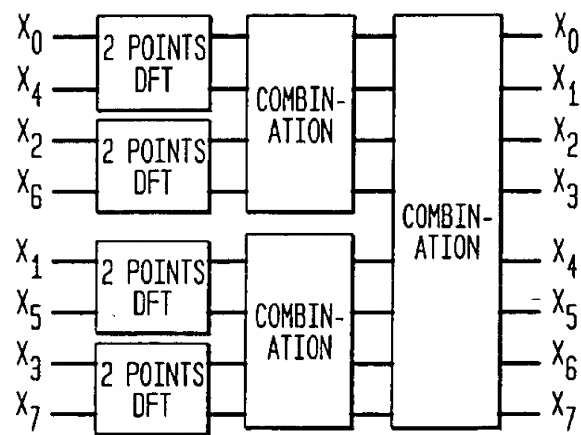


Fig 1C

(PRIOR ART)

DIT RADIX-2 BUTTERFLY COMPUTATION

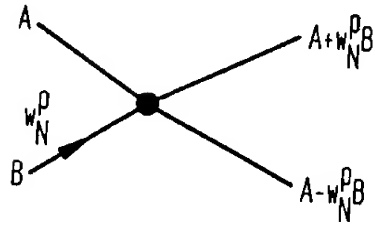


Fig 2A1

(PRIOR ART)

DIF RADIX-2 BUTTERFLY COMPUTATION

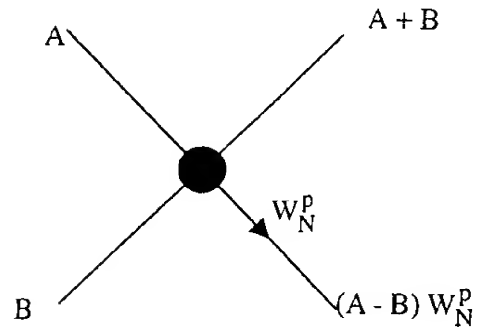


Fig 2A2

(PRIOR ART)

BUTTERFLIES REPRESENTATION OF AN 8 POINTS FFT

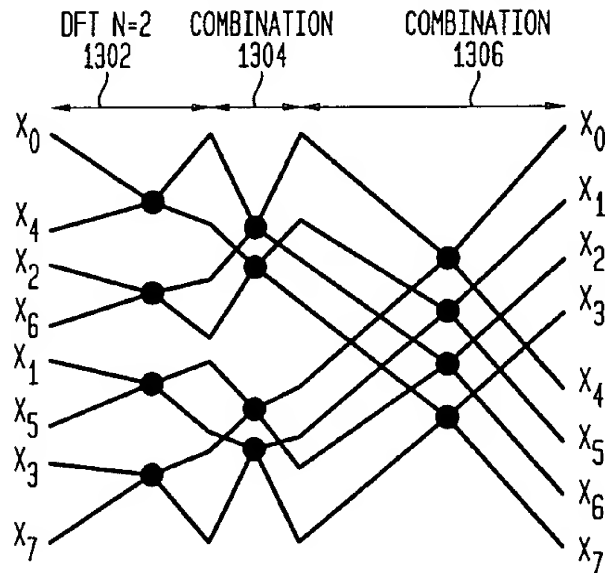


Fig 2B

FIG. 2C
(PRIOR ART)

IN PLACE FFT WITH BIT REVERSED INPUTS AND NORMALLY ORDERED OUTPUTS ($r=2$)

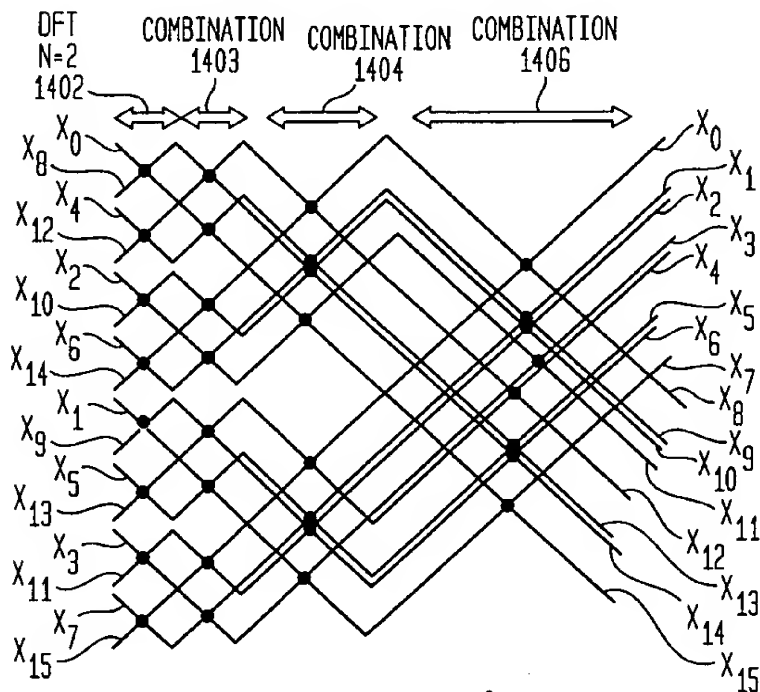


FIG. 2D
(PRIOR ART)

IN PLACE FFT WITH BIT REVERSED INPUTS AND NORMALLY ORDERED OUTPUTS

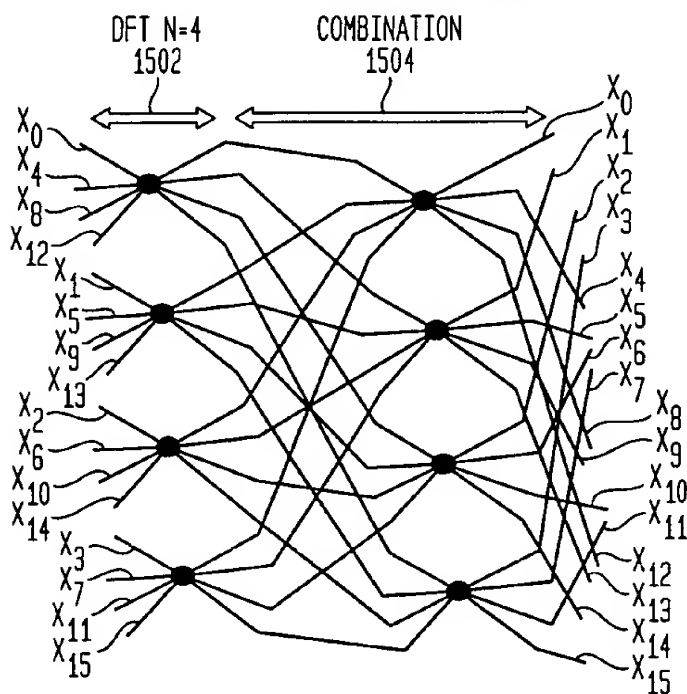


FIG. 3A
JABER'S RADIX- r DIF ENGINE

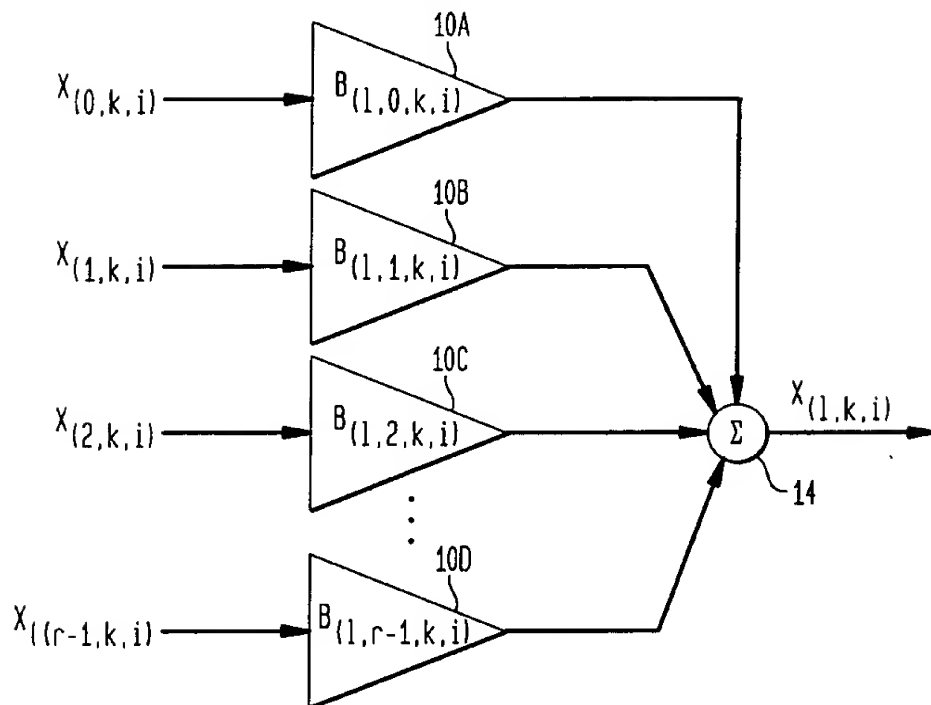


FIG. 3B
SIMPLIFIED JABER'S RADIX- r DIF ENGINE

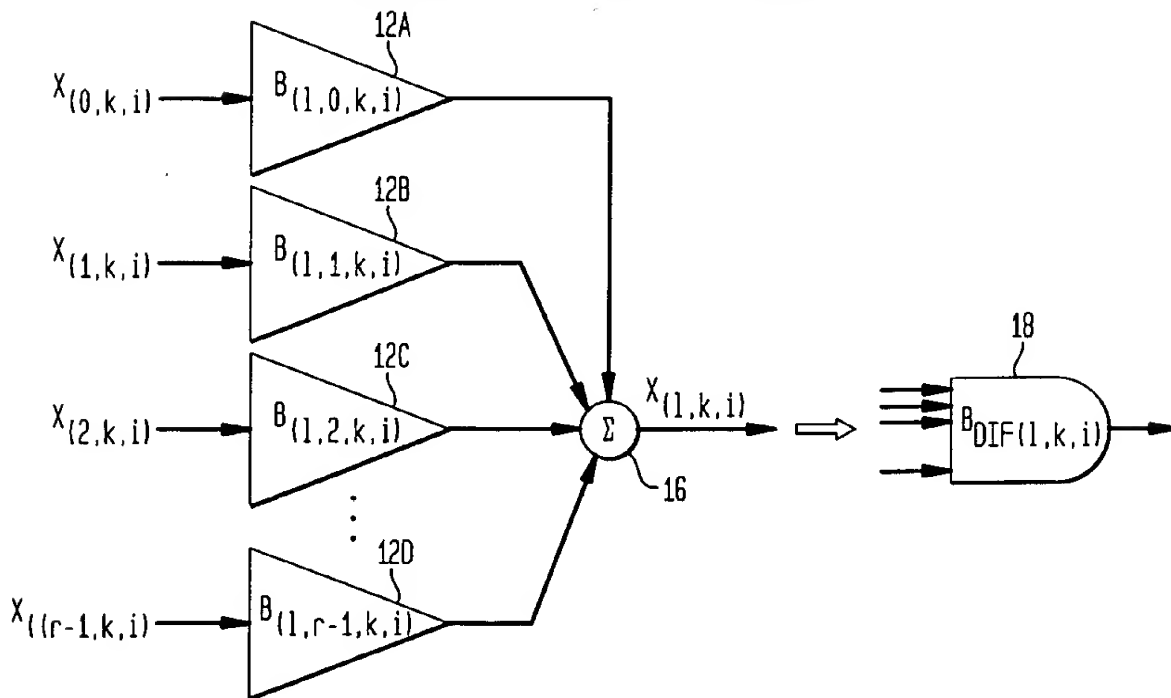


FIG. 4A
JABER'S RADIX- r DIT ENGINE

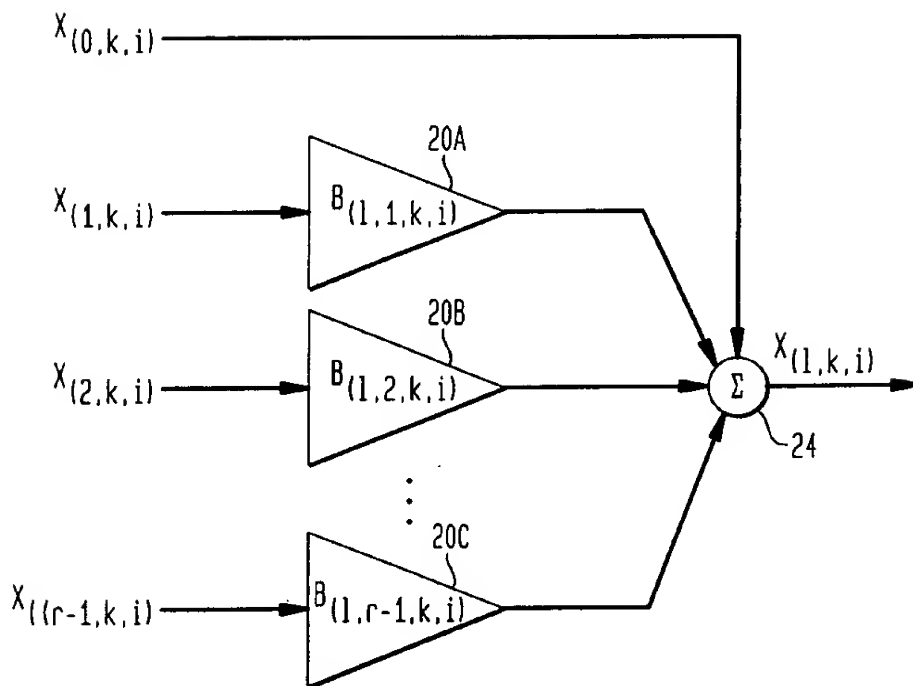


FIG. 4B
SIMPLIFIED JABER'S RADIX- r DIT ENGINE

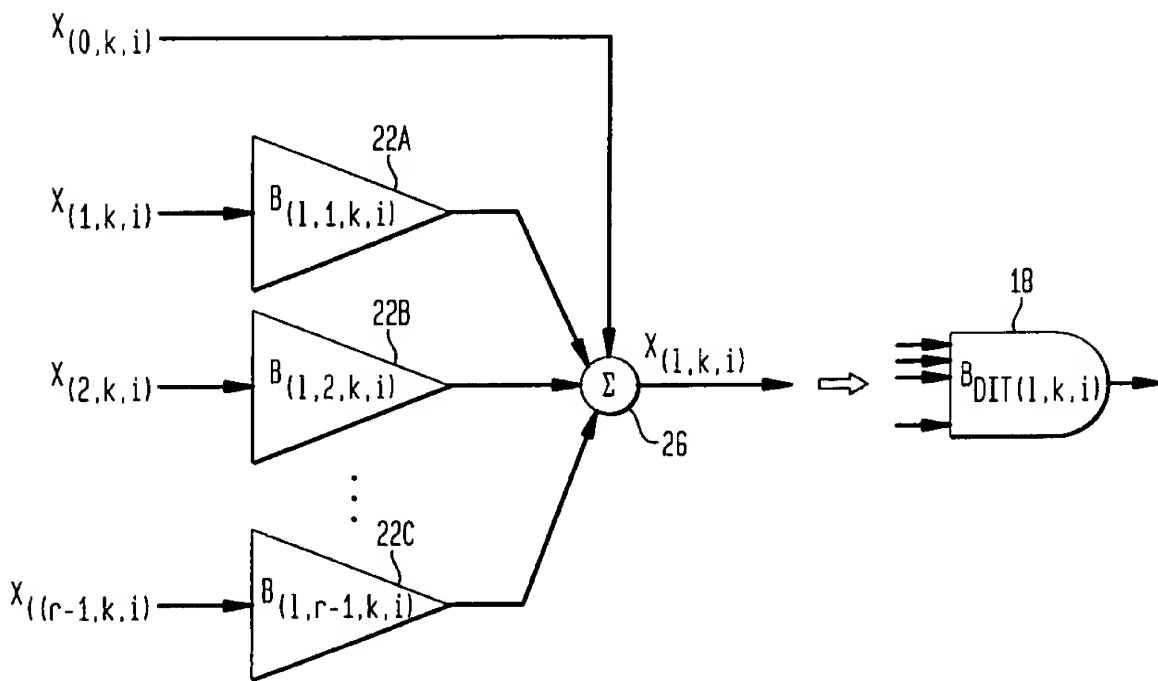


FIG. 5A
JABER'S RADIX- r DIF MODULE

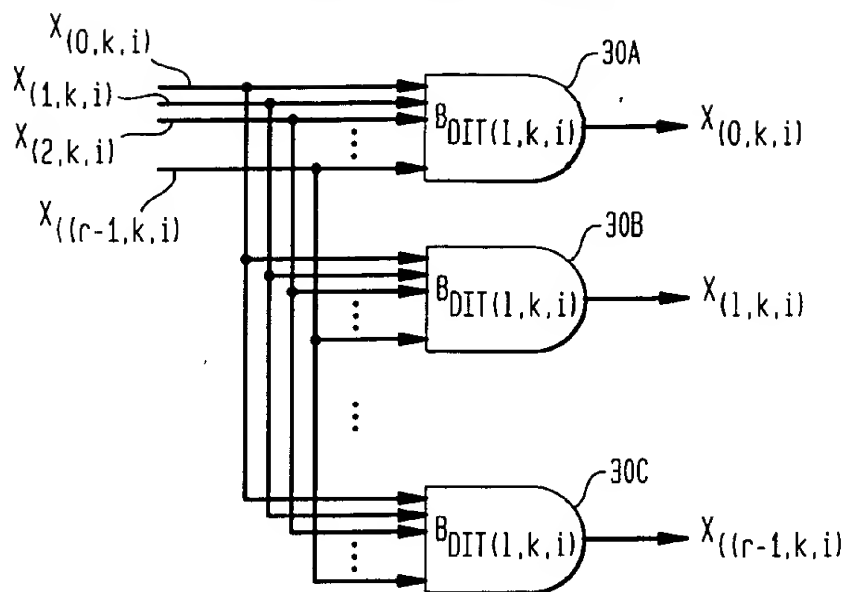


FIG. 5B
JABER'S RADIX- r DIT MODULE

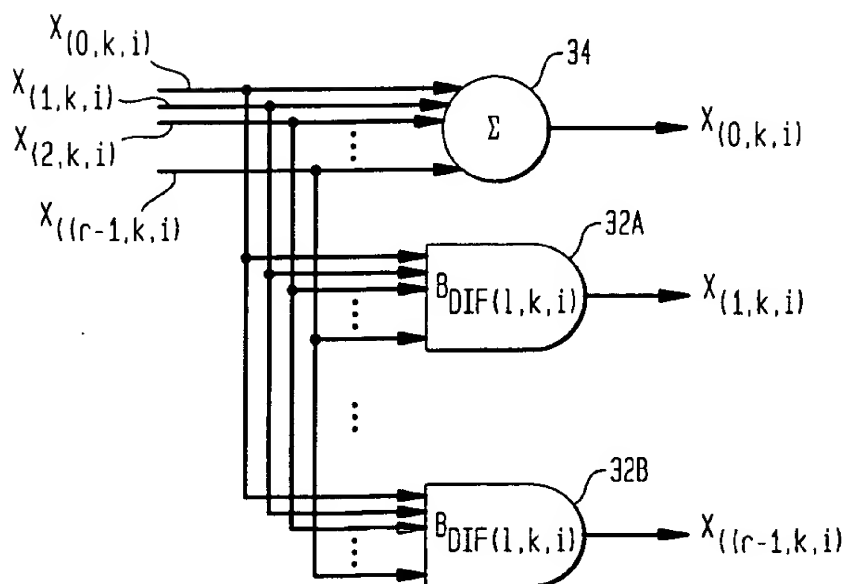


FIG. 6A
RADIX-8 DIT FFT ENGINE

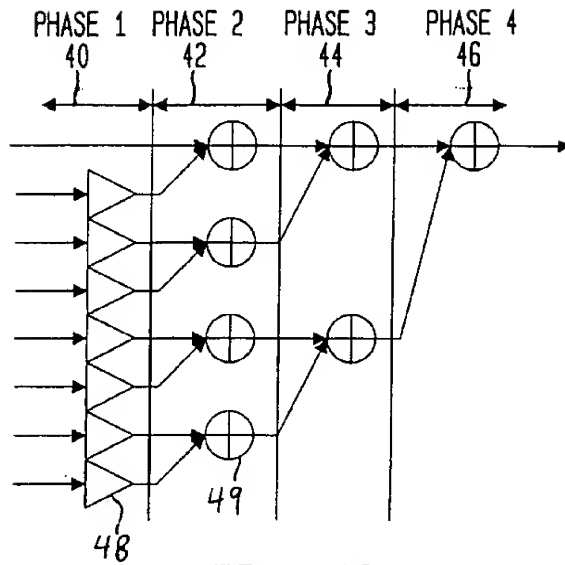
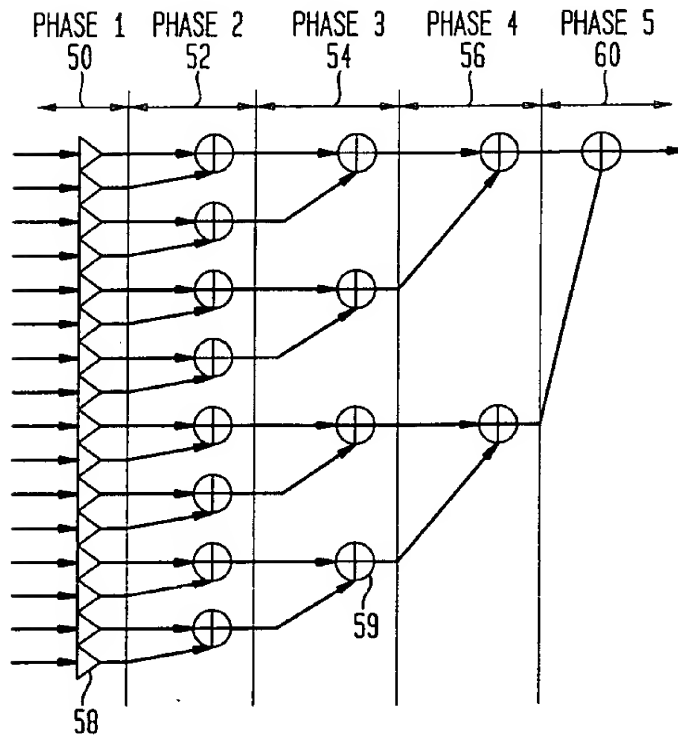


FIG. 6B
RADIX-16 DIF FFT ENGINE



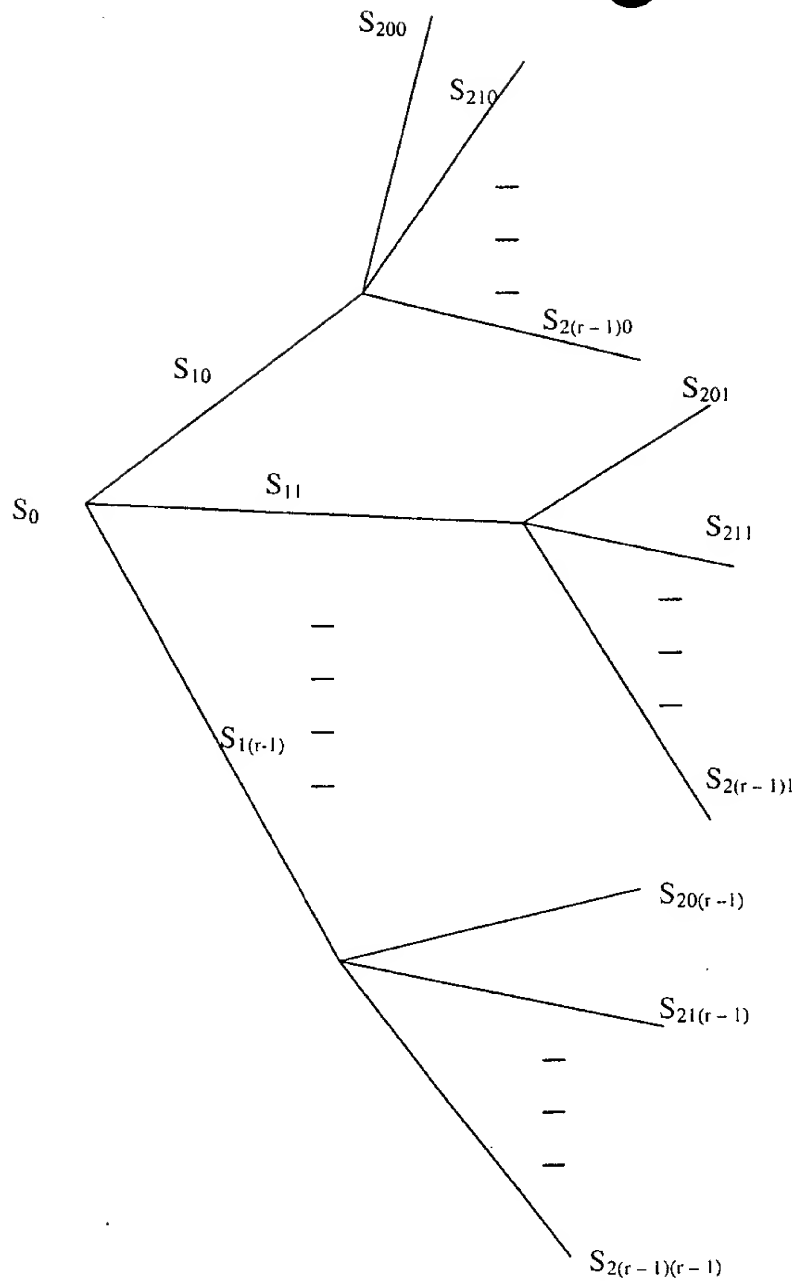


Fig 7

FIG. 8

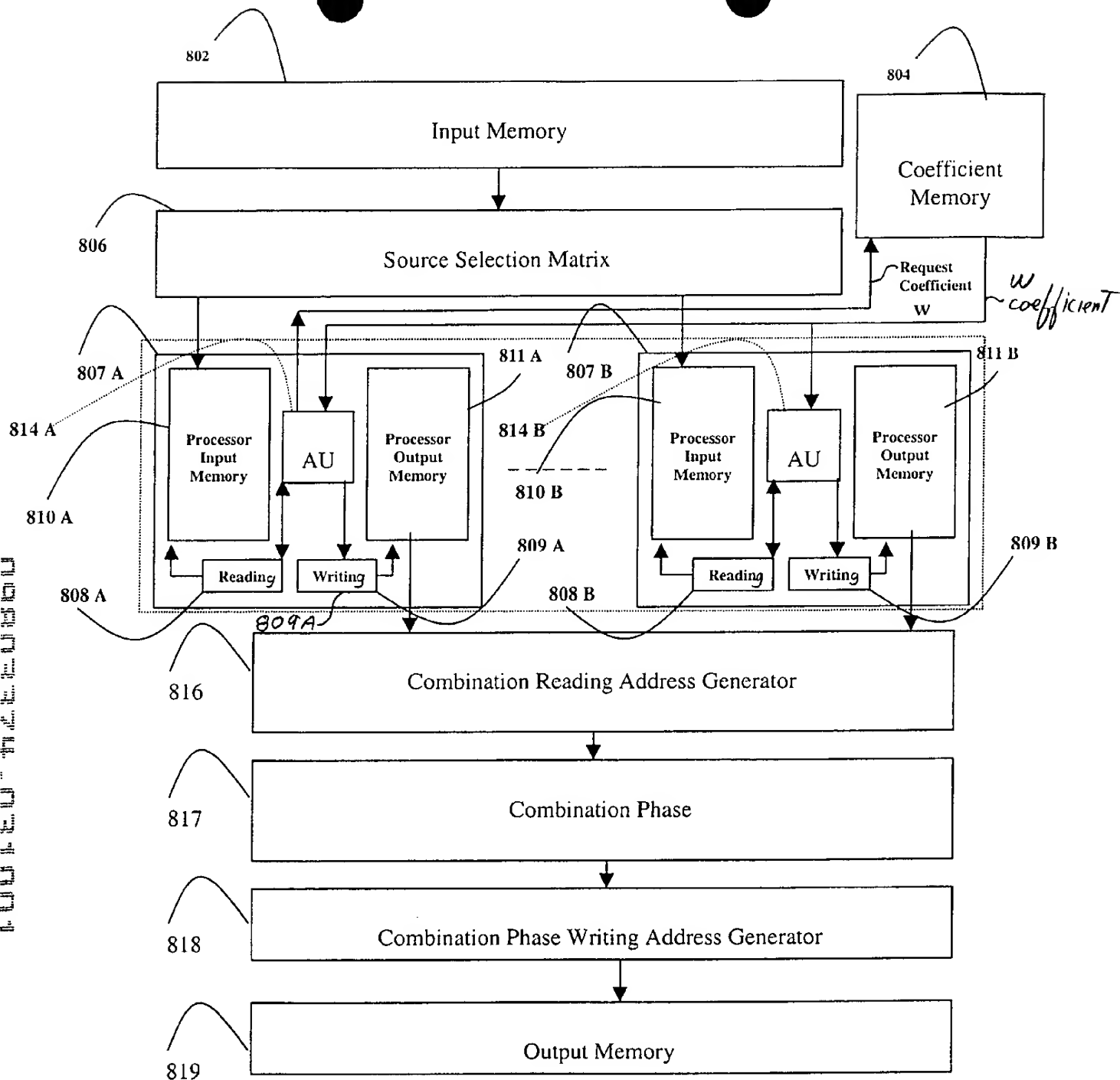


Fig 8

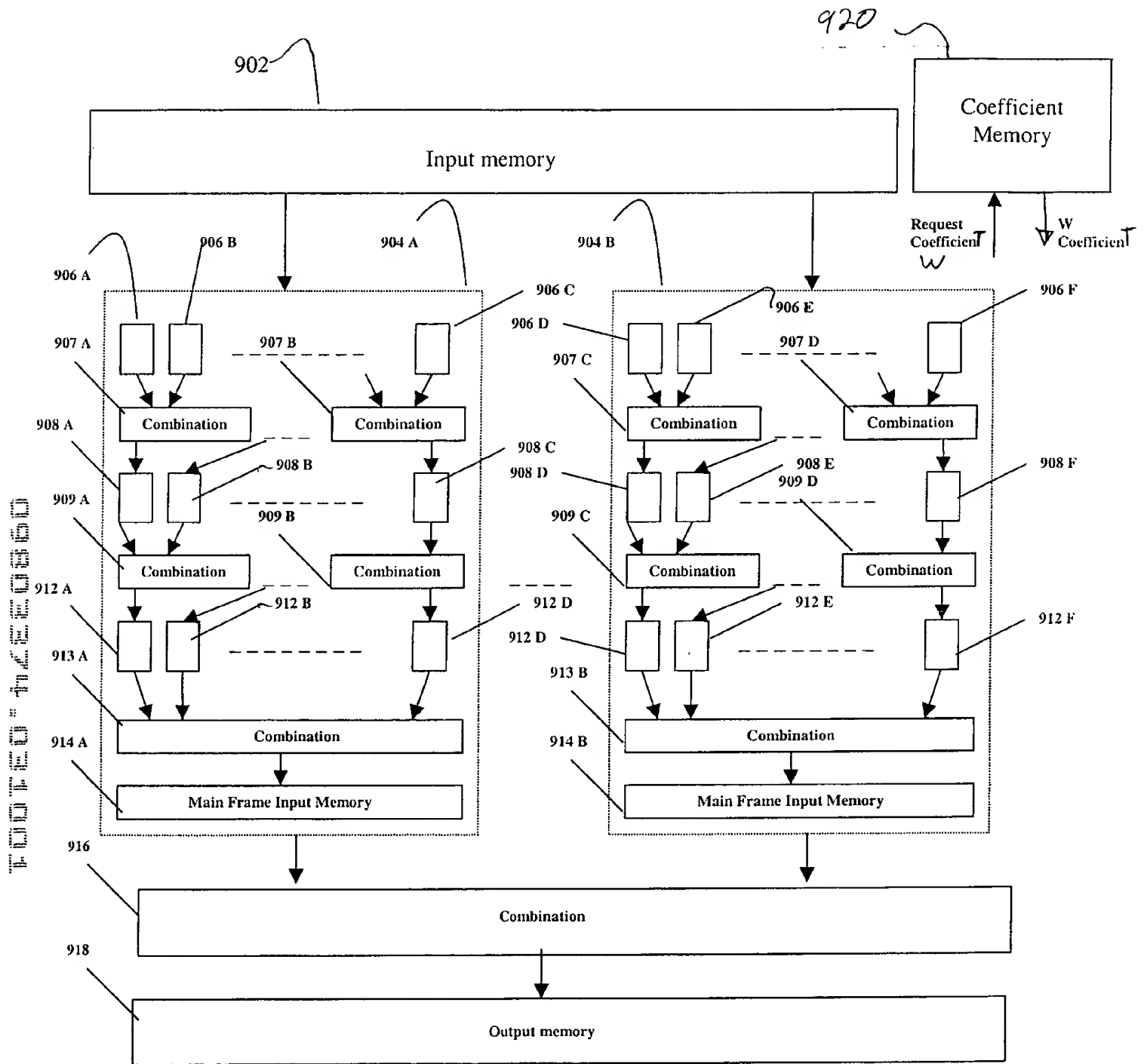
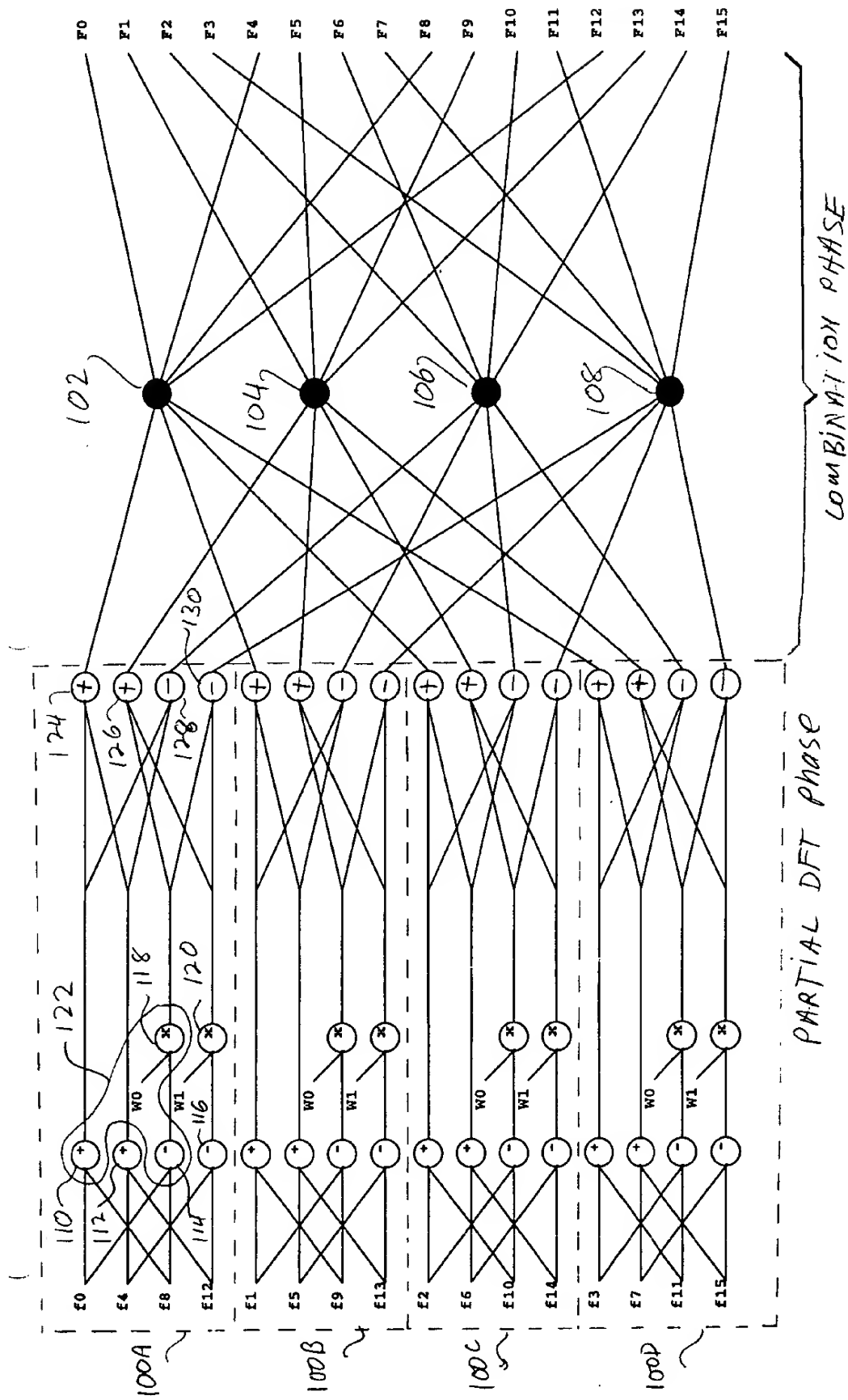
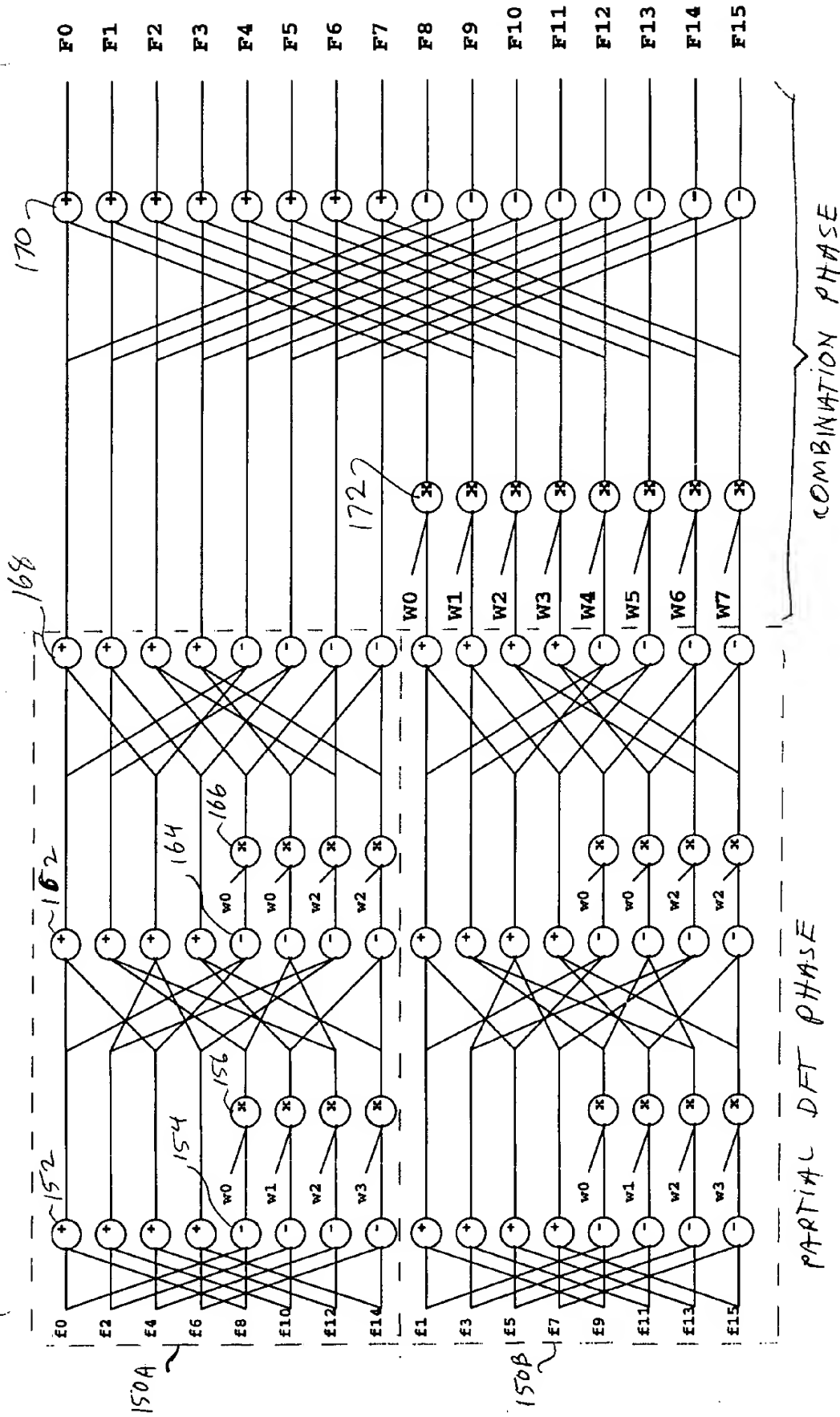


Fig 9



16 Points FFT radix 2 on four parallel processors with combination phase

FIG. 10



16 POINTS FFT MAPPING
WITH COMBINATION PHASE

FIG 11